Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of the claims in the subject application:

1. (Currently amended) A method for preparation of an anode for a solid oxide fuel cell comprising the steps of:

mixing a porous matrix material with a yttria-stabilized-zirconia (YSZ) powder, forming a porous matrix material/powder mixture;

forming said porous matrix material/powder mixture into a porous YSZ layer;

calcining said porous YSZ layer; and

impregnating said porous YSZ layer with a Cu-containing metalcontaining salt solution comprising an electron-conducting metal having an oxide form which melts at a temperature less than about 1550°C.

- 2. (Original) A method in accordance with Claim 1, wherein said porous matrix material comprises a plurality of zircon fibers.
- 3. (Previously presented) A method in accordance with Claim 1, wherein said porous matrix material/powder mixture is mixed with glycerol and

applied to an anode side of a YSZ electrolyte, forming said porous YSZ layer on said anode side of YSZ electrolyte.

- 4. (Previously presented) A method in accordance with Claim 1, wherein said porous matrix material/powder mixture is added to a tapecast and said tapecast is deposited onto an anode side of a YSZ electrolyte layer, forming said porous YSZ layer on said anode side of YSZ electrolyte.
- 5. (Previously presented) A method in accordance with Claim 4, wherein a cathode is applied to a cathode side of said YSZ electrolyte layer after said calcining of said porous YSZ layer.
- 6. (Previously presented) A method in accordance with Claim 1, wherein a metal content of said porous YSZ layer is at least about 35% by weight of said porous YSZ layer.
- 7. (Previously presented) A method in accordance with Claim 1, wherein said impregnated porous YSZ layer is calcined.

8. (Previously presented) A method in accordance with Claim 1, wherein said porous YSZ layer is impregnated with ceria.

- 9. (Previously presented) A method in accordance with Claim 8, wherein said ceria constitutes in a range of about 5% to about 40% by weight of said porous YSZ layer.
- 10. (Currently amended) A method for producing a solid oxide fuel cell comprising the steps of:

mixing a porous matrix material with a yttria-stabilized-zirconia (YSZ) powder, forming a porous matrix material/powder mixture;

mixing said porous matrix material/powder mixture with glycerol, forming a slurry;

applying said slurry to an anode-facing face of a dense YSZ electrolyte layer, forming a porous anode layer/electrolyte layer assembly;

calcining said porous anode layer/electrolyte layer assembly;

applying a cathode layer to a cathode-facing face of said electrolyte layer, forming a fuel cell assembly;

impregnating said porous anode layer with a Cu-containing metalcontaining salt solution comprising an electron-conducting metal having an oxide
form which melts at a temperature less than about 1550°C; and
calcining said impregnated porous anode layer.

- 11. (Currently amended) A method in accordance with Claim 12 10, wherein a metal content of said calcined impregnated porous anode layer is at least about 35% by weight of said calcined impregnated porous anode layer.
- 12. (Previously presented) A method in accordance with Claim 10, wherein said porous matrix material comprises a plurality of zircon fibers.
- 13. (Previously presented) In a solid oxide fuel cell comprising an anode electrode, a cathode electrode and an electrolyte disposed between said anode electrode and said cathode electrode, the improvement comprising:

said anode electrode comprising a porous YSZ layer and one of a Cu metal and a Cu alloy.

- 14. (Previously presented) A solid oxide fuel cell in accordance with Claim 13, wherein said anode electrode further comprises ceria.
- 15. (Previously presented) A solid oxide fuel cell in accordance with Claim 13, wherein a metal content of said anode electrode is at least about 35% by weight of said porous YSZ layer.
- 16. (Previously presented) A solid oxide fuel cell in accordance with Claim 14, wherein a ceria content of said anode electrode is in a range of about 5% to 40% by weight of said porous YSZ layer.
- 17. (Currently amended) A method for generating electricity comprising the steps of:

directly into an anode side of a solid oxide fuel cell comprising an anode electrode comprising a porous YSZ layer and one of a Cu metal and a Cu alloy an electron-conducting metal having an oxide form which melts at a temperature less than about 1550°C, a cathode electrode and an electrolyte disposed between said anode electrode and said cathode electrode;

introducing an oxidant into a cathode side of said solid oxide fuel cell; and

directly oxidizing said at least one of said hydrocarbon and said carbonaceous fuel in said solid oxide fuel cell, resulting in generation of electricity.

- 18. (Previously presented) A method in accordance with Claim 17, wherein said hydrocarbon comprises at least two carbon atoms.
- 19. (Previously presented) A method in accordance with Claim17, wherein said anode electrode further comprises ceria.
- 20. (Previously presented) A method in accordance with Claim 17, wherein said carbonaceous fuel is an alcohol.